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SEP 26 2000

TECH CENTER 1600/2900

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/534,825A

DATE: 09/25/2000

TIME: 11:22:28

Input Set : A:\419c7.app

Output Set: N:\CRF3\09252000\I534825A.raw

3 <110> APPLICANT: Frudakis, Tony N.  
 4 Smith, John M.  
 5 Reed, Steven G.  
 6 Misher, Lynda  
 7 Retter, Marc W.  
 8 Dillon, Davin C.  
 11 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE  
 12 TREATMENT AND DIAGNOSIS OF BREAST CANCER  
 15 <130> FILE REFERENCE: 210121.419C7  
 17 <140> CURRENT APPLICATION NUMBER: US/09/534,825A  
 18 <141> CURRENT FILING DATE: 2000-03-23  
 20 <160> NUMBER OF SEQ ID NOS: 317  
 22 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
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 25 <211> LENGTH: 363  
 26 <212> TYPE: DNA  
 27 <213> ORGANISM: Homo sapien  
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 31 gacgatttcc accggtatct cctcgtgggt attcagggag ctgcccagaa acctataaac 120  
 32 ttgtctaagg cgattgaagt cgtccagggg catgatgagt caccaggagt gtttttagag 180  
 33 cacctccagg aggtttatcg gatttacacc ccttttgacc tggcagcccc cgaaaatagc 240  
 34 catgctctta atttggcatt tgtggctcag gcagccccag atagtaaaag gaaactccaa 300  
 35 aaactagagg gattttgctg gaatgaatac cagtcagctt ttagagatag cctaaaaggt 360  
 36 ttt 363  
 38 <210> SEQ ID NO: 2  
 39 <211> LENGTH: 121  
 40 <212> TYPE: PRT  
 41 <213> ORGANISM: Homo sapien  
 43 <400> SEQUENCE: 2  
 44 Leu Glu Thr Gln Leu Gly Pro Asn Trp Asp Pro Asn Phe Ser Ser Gly  
 45 1 5 10 15  
 46 Gly Arg Thr Phe Asp Asp Phe His Arg Tyr Leu Leu Val Gly Ile Gln  
 47 20 25 30  
 48 Gly Ala Ala Gln Lys Pro Ile Asn Leu Ser Lys Ala Ile Glu Val Val  
 49 35 40 45  
 50 Gln Gly His Asp Glu Ser Pro Gly Val Phe Leu Glu His Leu Gln Glu  
 51 50 55 60  
 52 Ala Tyr Arg Ile Tyr Thr Pro Phe Asp Leu Ala Ala Pro Glu Asn Ser  
 53 65 70 75 80  
 54 His Ala Leu Asn Leu Ala Phe Val Ala Gln Ala Ala Pro Asp Ser Lys  
 55 85 90 95  
 56 Arg Lys Leu Gln Lys Leu Glu Gly Phe Cys Trp Asn Glu Tyr Gln Ser  
 57 100 105 110  
 58 Ala Phe Arg Asp Ser Leu Lys Gly Phe  
 59 115 120  
 61 <210> SEQ ID NO: 3

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P.5

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62 <211> LENGTH: 1080
63 <212> TYPE: DNA
64 <213> ORGANISM: Homo sapien
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67 <221> NAME/KEY: misc_feature
68 <222> LOCATION: (1)...(1080)
69 <223> OTHER INFORMATION: n = A,T,C or G
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73 caccatttta ggaggagcaa agctacctca gctcctccgg agccgtttta agatccccc      120
74 tcttcaaaagc ctaacagatc aagcagctct ccggtgcaca acctgcgccc aggtaaatgc      180
75 caaaaaaggt cctaaaccca gcccaggcca ccgtctccaa gaaaactcac caggagaaaa      240
76 gtgggaaatt gactttacag aagtaaaacc acaccgggct gggtagacaa accttctagt      300
77 actggtagac accttctctg gatggaactg agcatttgct accaaaaacg aaactgtcaa      360
78 tatggtagtt aagtttttac tcaatgaaat catccctcga cgtgggctgc ctgttgccat      420
79 agggctctgat aatggaaacg ccttcgcctt gtctatagtt taatcagtcg gtaaggcggt      480
80 aaacattcaa tggaaagctcc attgtgccta tcgaccacga gctctgggca agtagaacgc      540
81 atgaactgca cctaaaaaaa acactcttac aaaattaatc ttaaaaaccg gtgttaattg      600
82 tgtagtcttc cttcccttag ccctacttag agttaagggt caccctctac tgggctgggt      660
W--> 83 tctttacett ttgaaatcat ntttnggaag gggctgccta tctttnctta actaaaaaan      720
W--> 84 gccatttgg caaaaatttc ncaactaatt tntacgtnc cactctccc caacagggtan      780
W--> 85 aaaaatctnc tgcccttttc aaggaacat cccatccatt cctnaacaaa aggcctgcn      840
W--> 86 ttcttcccc agttaactnt ttttnttaa aattccaaa aaangaacn cctgctggaa      900
W--> 87 aaacncccc ctccaanccc cgccnaagn ggaaggttcc cttgaatccc nccccnca      960
W--> 88 anggccgga acctntaaan tngttcngg gggtnnggcc taaaagnccn atttggtaaa      1020
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92 <211> LENGTH: 1087
93 <212> TYPE: DNA
94 <213> ORGANISM: Homo sapien
96 <220> FEATURE:
97 <221> NAME/KEY: misc_feature
98 <222> LOCATION: (1)...(1087)
99 <223> OTHER INFORMATION: n = A,T,C or G
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103 caagtagggc ctttaaaacta ctacacctgt ttgtcttcta atttattctg ttttattttg      120
104 ttcccatcat ttttaaggggt taaaatcatc ttgttcagac ctacagcata aaaatgaccc      180
105 atctgtagac ctacaggctcc aaccataccc caagagttgt ctggttttgt ttaaattact      240
106 gccaggtttc agctgcagat atccctggaa ggaatattcc agattccctg agtagtttcc      300
107 aggttaaaat cctataggct tcttctgttt tgaggaagag ttctgtctag agaaaaacat      360
108 gattttggat ttttaacttt aatgcttgtg aaacgctata aaaaaaattt totacccta      420
109 gctttaaagt actgttagtg agaaattaaa attccttcag gaggattaaa ctgccatttc      480
110 agttacccta attccaaatg ttttggtggt tagaatcttc tttaatgttc ttgaagaagt      540
W--> 111 gttttatatt ttcccatena gataaattct ctcnccctt nntttntnt ctntttttt      600
W--> 112 aaaacggant cttgctcctg tgtccangct gggaaatttn ttttgccaa tctccgctnc      660
W--> 113 cttgcaanaa tncgtcntcc caaaattacc nctttttcc cactccacc ccnnggaatt      720
W--> 114 acctggaatt ahaggcccc ncccccccc cggttaattt gtttttgttt ttagtaaaaa      780
W--> 115 acgggtttcc tgttttagtt aggatggccc anntctgacc cctnatcnt cccctcngc      840

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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/534,825A DATE: 09/25/2000  
 TIME: 11:22:28

Input Set : A:\419c7.app  
 Output Set: N:\CRF3\09252000\I534825A.raw

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W--> 116 cctcnaatnt tnggnntang gcttaccccc ccngnngtt ttctctccat tnaaattttc 900
W--> 117 tntggantct tgaatnecgg gttttccctt ttaaacccnat ttttttttn nnncccccna 960
W--> 118 ttttnectec ccctntnta angggggttt cccaaacgg gtcncccc angtccecaa 1020
W--> 119 tttttctccc cccccctctt tttctttnc cccaaaaanc ctatcttttc cttnnaatat 1080
W--> 120 cnantnt 1087
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123 <211> LENGTH: 1010
124 <212> TYPE: DNA
125 <213> ORGANISM: Homo sapien
127 <220> FEATURE:
128 <221> NAME/KEY: misc_feature
129 <222> LOCATION: (1)...(1010)
130 <223> OTHER INFORMATION: n = A,T,C or G
132 <400> SEQUENCE: 5
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134 agtaaacatt ctccacagtt tatgcaaaaa gtaacaaaac cactgcagat gacaaacact 120
135 aggtaacaca catactatct cccaaatacc taccacacag ctcaacaatt ttaaaactgtt 180
136 aggatcactg gctctaatac ccatgacatg aggtcaccac caaacatca agcgctaaac 240
137 agacagaatg ttccactcc tgatccactg tgtgggaaga agcaccgaac ttaccactg 300
W--> 138 gggggcctgc ntcanaanaa aagcccatgc ccccggtnt ncctttnaac cggaacgaat 360
W--> 139 naaccaccca tccccacanc tcctctgttc ntgggcccctg catcttggtg cctcntntnc 420
W--> 140 tttnggggan acntggggaa ggtaccccat ttenttgacc ccnanaaaa acccngtgg 480
W--> 141 ccccttgccc tgattcncnt gggecttttc tcttttccct tttgggtgt ttaaatcccc 540
W--> 142 aatgtcccn gaacctctc cntnctgcc aaaacctacc taaattncct nctangnntt 600
W--> 143 ttcttggtgt tcttttcaa aggtnacctt ncctgttcan nccnacnaa aatttttcc 660
W--> 144 ntatnntggg ccnnaaaaaa mnnatcnnc cnaattgccc gaattggtn ggtttttcct 720
W--> 145 nctgggggaa accctttaa ttccccctt ggccggcccc cctttttcc cccctttnga 780
W--> 146 aggcaggngg ttctccca acttccaatt ncaacagccn tgccattgn tgaaaccctt 840
W--> 147 ttcttaaaat taaaaaatan ccggttnngg nnggcctctt tccctccng gngggngng 900
W--> 148 aaantcttta cccnaaaaaa ggttgcttag cccccngtcc ccactcccc nggaaaaatn 960
W--> 149 aaccttttcc aaaaaaggaa tataanttn ccactcttn gttctcttc 1010
151 <210> SEQ ID NO: 6
152 <211> LENGTH: 950
153 <212> TYPE: DNA
154 <213> ORGANISM: Homo sapien
156 <220> FEATURE:
157 <221> NAME/KEY: misc_feature
158 <222> LOCATION: (1)...(950)
159 <223> OTHER INFORMATION: n = A,T,C or G
161 <400> SEQUENCE: 6
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163 gctcactgca atctctgcc ccggggtcat gcgattctcc tgcctcagcc ttccaagtag 120
164 ctgggattac aggcgtgcaa caccacccc ggctaatttt gtatttttaa tagagatggg 180
W--> 165 gttttccctt gttggccann atggtctcna accectgacc tcnngtgatc ccccccccn 240
W--> 166 nganctcna ctgctgggga tnnccgnnnn nnnctcccn ncnnnnnnn ncnntnccn 300
W--> 167 tnnctcttnc tcnnnnnnnn cnntcnntcc nctctctnc cnntntntt cnncnccnn 360
W--> 168 cnncnccnt ncccnnnnt tcnctnctnn tntccnncnn nntcnncnn cnnnctntn 420
W--> 169 ccnntacntc nttnnnnnnt cctctntnn cctcnncnt cctcnctnt tntctctcn 480
W--> 170 nttnnnnnct ccnnnntct cntcnnnnn tncctnnnn nccncccc nctcnncnn 540

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W--> 171 ctnnttttnnn cnnnnnttc ntncntttn nntccnntnn cnnntcnen nncnttttc 600
W--> 172 ccncnnnttc cttncnctn nntntcnnn cnentcnntc ntttctctt nnntcccnnc 660
W--> 173 tcnnttcncc cnnntcncc cccnccctnt ctctcnccn nntnnnttnn nnnntcnnc 720
W--> 174 tntcnnttc ntcnntnctn tntntcnnc nncnntcnnc tncntntnt ctnntcnnc 780
W--> 175 tcnntntcn cncncttn ctnctctn tntctctt ctcnctnct cttcnccnc 840
W--> 176 ccnntnttnn tnnccnnt nctnnnncn ctnctttn tctctnctnn nntnnccctc 900
W--> 177 nccccntnc ctnntnctn nctnntacn tntnctcn tctctctt 950
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180 <211> LENGTH: 1086
181 <212> TYPE: DNA
182 <213> ORGANISM: Homo sapien
184 <220> FEATURE:
185 <221> NAME/KEY: misc_feature
186 <222> LOCATION: (1)...(1086)
187 <223> OTHER INFORMATION: n = A,T,C or G
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191 ctgttactgt gtctatgtag aaagaagtag acataagaga ttccattttg ttctgtacta 120
192 agaaaaattc ttctgccttg agatgctgtt aatctgtaac cctagcccca accctgtgct 180
193 cacagagaca tgtgctgtgt tgactcaagg ttcaatggat ttagggtat gctttgttaa 240
194 aaaagtgcct gaagataata tgcttgtaa aagtcacac cattctctaa tctcaagtac 300
195 ccagggacac aatacactgc ggaaggccgc agggacctct gtctaggaag gccaggtatt 360
196 gtccaagatt tctccccatg tgatagctg agatagggc tcatgggaag ggtaagacct 420
197 gactgtcccc cagcccgaca tccccagcc cgacatcccc cagcccgaca cccgaaaagg 480
W--> 198 gtctgtgctg aggaagatta ntaaaaggagg aaggctctt gcattgaagt aagaagaagg 540
199 ctctgtctcc tgctcgctcc tgggcaataa aatgtcttg tgtaaaacc gaatgtatgt 600
200 tctacttact gagaatagga gaaaacatcc ttagggtgagg aggtgagaca cctggcgagg 660
W--> 201 atactgtctt ttaatgcacg agatgtttgt ntaattgcca tccaggggcca ncccccttc 720
W--> 202 ttaacttttt atganacaaa aactttgttc nctttctct cgaacctctc cccctattan 780
W--> 203 cctattggcc tgcccatccc ctcccaaan ggtgaaaana tgttcntaaa tncgagggaa 840
W--> 204 tccaaaacnt tttcccgctg gtcctcttcc caaccccgtc cctgggcenn ttctctccc 900
W--> 205 aacntgtccc ggntcctttn ttccncccc ctcccnngan aaaaaacccc gntnganggn 960
W--> 206 gccccctcaa attataacct ttccnaaaca aannggtttn aaggtggttt gnttccggtg 1020
W--> 207 cggtggcct tgaggctccc cctncacccc aatttggan cngtctttt ttattgccc 1080
W--> 208 ntcccc 1086
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211 <211> LENGTH: 1177
212 <212> TYPE: DNA
213 <213> ORGANISM: Homo sapien
215 <220> FEATURE:
216 <221> NAME/KEY: misc_feature
217 <222> LOCATION: (1)...(1177)
218 <223> OTHER INFORMATION: n = A,T,C or G
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222 aagcatcctg gagtatcaga gtttactgtt agatcagcct cattgaact cccctccac 120
223 atggtgttta aatccagcta cactacttcc tgactcaaac tccactatc ctgttcatga 180
224 ctgtcaggaa ctgttgaaa ctactgaaac tggccgacct gatcttcaa atgtgccct 240
W--> 225 aggaagggtg gatgccaccg tgttcacaga cagtacncc ttctcgaga agggactacg 300

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RAW SEQUENCE LISTING                      DATE: 09/25/2000  
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Input Set : A:\419c7.app  
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W--> 226 aggggcccgt gcanctgtta ccaaggagac tnatgtgttg tgggctcagg ctttaccanc 360
W--> 227 aaacacctca ncnchnaagg ctgaattgat cgcctcact caggctctcg gatggggtaa 420
      228 gggatattaa cgttaacact gacagcagg acgcctttgc tactgtgcat gtacgtggag 480
W--> 229 ccatctacca ggagcgtggg ctactcactc ggcaggtggc tgnatccac tgtaaangga 540
W--> 230 catcaaaagg aaaacnnggc tgttgcccgt ggtaaccana aanctgaten ncagctcnaa 600
W--> 231 gatgctgtgt tgactttcac tcnncctct taaacttgct gcccacantc tcctttccca 660
W--> 232 accagatctg cctgacaatc cccatactca aaaaaaaaaa aanactggcc ccgaaccna 720
W--> 233 accaataaaa acgggggagg tnggtnganc nncctgaccc aaaaataatg gatcccccg 780
W--> 234 gctgcaggaa ttcaattcan cttatcnat acccccaacn ngnggggggg ggcngtnc 840
W--> 235 cattnccct ntattnatte tttnncccc ccccggent cctttttnaa ctctgaaag 900
W--> 236 ggaaaacctg ncttaccan ttatcnctg gacntcccc tccncggtn gnttanaaaa 960
W--> 237 aaaagccnc antccntcc naaatttga cngaaaggna aggaatttaa cctttatttt 1020
W--> 238 ttnntccttt antttgtann cccctttta cccaggcgaa cngccatcnt ttaanaaaaa 1080
W--> 239 aaanagaang tttatttttc cttngaacca tcccaatana aancaccgc nggggaacgg 1140
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      243 <211> LENGTH: 1146
      244 <212> TYPE: DNA
      245 <213> ORGANISM: Homo sapien
      247 <220> FEATURE:
      248 <221> NAME/KEY: misc_feature
      249 <222> LOCATION: (1)...(1146)
      250 <223> OTHER INFORMATION: n = A,T,C or G
      252 <400> SEQUENCE: 9
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      254 gaaaagggtc aaaaggagct gttgacagtc atcccagggt ggccaatgtg tccagagtac 120
      255 agactccatc agtgagggtc aagcctgggg cttttcagag aaggagggat tatgggtttt 180
      256 ccaattatac aagtcagaag tagaaagaag ggacataaac caggaagggg gtggagcact 240
      257 catcaccagc agggacttgt gctctctca gtggtagtag aggggctact tcctccacc 300
W--> 258 acgggtgcaa ccaagaggca atgggtgatg agcctacagg ggacatancc gagagacat 360
      259 gggatgaccc taagggagta ggctggtttt aaggcgggtg gactgggtga gggaaactct 420
      260 cctcttcttc agagagaagc agtacagggc gagctgaacc ggctgaaggc cgagcgaaaa 480
      261 acacggtctg gctcaggaa accttggaag taaaattatg aatggtgcat gaatggagcc 540
      262 atggaagggg tgctcctgac caaactcagc cattgatcaa tgttagggaa actgatcagg 600
      263 gaagccggga atttcattaa caaccgccca cacagcttga acattgtgag gtctcagtac 660
W--> 264 ccttcaaggg gccactccac tccaactttg gccattctac ttgcnaaat ttccaaaact 720
      265 tcctttttta aggcgaatc cntantccct naaaaaacnaa aaaaaatctg cncctattct 780
W--> 266 ggaaaaggcc cancccttac caggctggaa gaaattttnc cttttttttt tttttgaagg 840
W--> 267 cntttnttaa attgaacctn aattcncccc cccaaaaaaa aaccnccng gggggcggt 900
W--> 268 ttccaaaaaa naattccctt accaaaaaac aaaaaccnc ccttnttccc ttcnccctn 960
W--> 269 ttcttttaat tagggagaga tnaagcccc caatttcng gncatgatnn gtttccccc 1020
W--> 270 cccccatttt cnaaaacttt tcccancna ggaanccnc ctttttttng gtctgattna 1080
W--> 271 ncaaccttcc aaaccatttt tccnnaaaaa ntttgntng ngggaaaaan acctntttt 1140
W--> 272 atagan 1146
      274 <210> SEQ ID NO: 10
      275 <211> LENGTH: 545
      276 <212> TYPE: DNA
      277 <213> ORGANISM: Homo sapien
      279 <400> SEQUENCE: 10

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FYI

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

## VERIFICATION SUMMARY

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DATE: 09/25/2000

TIME: 11:22:29

Input Set : A:\419c7.app

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L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
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L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
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L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
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L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
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L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/534,825A

DATE: 09/25/2000

TIME: 11:22:29

Input Set : A:\419c7.app

Output Set: N:\CRF3\09252000\I534825A.raw

L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7